000000000 000000000 0000000000 000 000 000 000	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	000000000 0000000000 0000000000 000 000 000 000	MMM MMM MMM MMM MMMMM MMMMM MMMMMM MMMMMM
	PPP PPP PPP	000000000000000000000000000000000000000	000 000000000 000000000 000000000	MMM         MMM           MMM         MMM           MMM         MMM           MMM         MMM

\_\$2

Sym

ASC

BOD BOD BOD BOD BOD BUG BYP CAN CAN CHE

CLU

######################################	MM	\$	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	MM MM MMM MMMM MMMM MMMM MM MM MM MM MM	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
	\$				

OP VO OF

VC

MODULE OPC\$TIMESTAMP LANGUAGE (BLISS32), IDENT = 'VO4-000' CORPORATION.

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! FACILITY:

**OPCOM** 

ABSTRACT:

This module contains all the various and sundry general purpose utility routines used by OPCOM's request handlers.

Environment:

VAX/VMS operating system.

Author:

Steven T. Jeffreys

Creation date:

March 10, 1981

Revision history:

V03-005 CWH3005 CW Hobbs 25-Jul-1984 Tune the workset purge algorithm to eliminate purges on a quiet OPCOM.

V03-004 CWH3169

CW Hobbs

5-May-1984



OF V

EXTERNAL LITERAL ROCB K TYPE. MIN SCOPE. MAX\_SCOPE;

Tell cluster about current operators and requests

OF V

Type code for RQCB structure Minimum scope value Maximum scope value

```
E 10
16-Sep-1984 01:57:57
14-Sep-1984 12:50:59
OPCSTIMESTAMP
                                                                                                                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJTIMESTAMP.B32;1
                                                                                                                                                                                                                                                                                                                                                                                Page
                                              EXTERNAL
        LOGFILE RAB
                                                                                                                                              : $bblock,
: VECTOR,
: BITVECTOR,
: VECTOR [2, LONG],
                                                                                                                                                                                                                           RAB for operator logfile OCD list heads
                                                                                              GLOBAL STATUS : BITVEON PROPERTY STATUS : BI
                                                                                                                                                                                                                           Global status bits for OPCOM
Head of node queue
Delta time quadword
                                                                                                                                              : $ref_bblock.
                                                                                                                                                                                                                           Swap out page count
Counter for log file timestamp messages
                                                                                                LOGTIME_COUNTER : LONG;
                                                                       GLOBAL
                                                                                                                                                                                                                           Make it easy to find with SDA
Purge work set if above this value
                                                                                               PURGE_LIMIT
                                                                                                                                               : LONG:
                                                                      OWN
                                                                                               GPGCNT
PPGCNT
                                                                                                                                               : LONG,
                                                                                                                                                                                                                           Global pages in working set
                                                                                                                                             : LONG,
: VECTOR [8, LONG]
PRESET ([0] = (jpi
                                                                                                                                                                                                                      ! Process pages in working set ! Item list to get working set items
                                                                                                JPI_WSITEMS
                                                                                                                                                                                 = (jpi$ gpgcnt*16 OR 4),
= GPGCNT,
                                                                                                                                                                                  =
                                                                                                                                                                                 = (jpi$ ppgcnt^16 OR 4),
= PPGCNT,
                                                                                                                                                                                  =
                                                                                                                                                                                  =
                                                                                                                                                                                  =
                                                                                                                                                                                                                                              ! End of item list, head of $PURGWS addr desc! End of $PURGWS addr desc
                                                                                                                                                                                        XX'7FFFFFFFF'):
                                                                      LOCAL
                                                                                                                                              : $ref_bblock, : $ref_bblock,
                                                                                               ROST
                                                                                                                                                                                                                           RQCB (request) data structure
                                                                                               NEXT ROST
                                                                                                                                                                                                                           ditto
                                                                                               ROST_COUNT
                                                                                                                                               : LONG.
                                                                                                                                                                                                                           Count of requests in list
Node data structure
                                                                                               NOD
                                                                                                                                               : $ref_bblock.
                                                                                               OCD
                                                                                                                                               : $ref_bblock,
                                                                                                                                                                                                                           OCD data structure
                                                                                              NEXT_OCD
OCD_COUNT
STATUS
                                                                                                                                               : Sref_bblock,
                                                                                                                                                                                                                           ditto
                                                                                                                                               : LONG.
                                                                                                                                                                                                                           Count of OCDs in list
                                                                                                                                               : LONG:
                                                                            If shutdown is pending, then do nothing.
                                                                      IF .GLOBAL_STATUS [GBLSTS_K_SHUTDOWN_PENDING]
                                                                      THEN
                                                                                  BEGIN
                                                                                   GLOBAL_STATUS [GBLSTS_K_TIMESTAMP_PENDING] = FALSE; RETURN;
                                                                                   END:
                                                                             Set GBLSTS_K_TIMESTAMP_PENDING. If OPCOM is busy, then return. If not, then set GBLSTS_K_BUSY to prevent another timestamp AST from arriving.
                                                                      GLOBAL_STATUS [GBLSTS_K_TIMESTAMP_PENDING] = TRUE;
IF .GLOBAL_STATUS [GBESTS_K_BUSY]
THEN
                                                                                   RETURN;
                                                                       GLOBAL_STATUS [GBLSTS_K_BUSY] = TRUE;
                                                                             Every twelve timestamps (once an hour), stamp the log file. Also, since we might
                                                                             have a lot of garbage sitting in memory, flush the working set so that we do not
```

O

:

.............

. .. ..

...........

\*1

Page

Also note that as this is happening, implicitly disabled operators are being processed. They too will be removed from the data base later in this routine.

INCR I FROM MIN\_SCOPE TO MAX\_SCOPE DO

0

Page

.TITLE OPC\$TIMESTAMP .IDENT \V04-000\
.PSECT \$0WN\$,NOEXE,2

O

00000 GPGCNT: .BLKB 4

CLRL

PUSHL

PUSHL

CALLS

BLBC

MOVL

CLRL PUSHAB

PUSHL

CALLS PUSHL

CALLS

PUSHL

LOGTIME\_COUNTER

WROCB K TYPE
W2. ACLUCATE\_DS
R0. 3\$
W360601, MSGVEC
MSGVEC+4

LOG\_ROCB #2, FORMAT\_MESSAGE LOG\_ROCB #1, LOG\_MESSAGE LOG\_ROCB

MSGVEC

0000G

08 04 04

DDBDDB

0000000G

24 AE 00058099

0000G

04

0000G

0000G

CF

0

0218

0225

					16- 14-	10 -Sep-19 -Sep-19	984 01:57 984 12:50	:57	VAX-11 Bliss- [OPCOM.SRC]T	-32 v4.0-742 IMESTAMP.B32	;1	(2)
	00006	CF	0000° CF 7E 7E	FB 00 7C 00 04 00 9F 00 7C 00	0065 006A 006C 006E 0072	3\$:	CALLS CLRQ CLRL PUSHAB CLRQ	-(SP) JPI W -(SP)	SITEMS	3	0	233
	000000006	00 58 03	7E 07 50 5B	D4 00 FB 00 EB 00 31 00	0074 0076 007D 0080 0083		CLRL CALLS MOVL BLBS	STATU	YS\$GETJPI TATUS S, 4\$			
50	0000	CF	0000° CF 0000° CF 0000° CF	C1 00	0086 008E 0093	\$8:	BRW ADDL3 CMPL BLEQ	19\$ GPGCN RO, P	T, PPGCNT, RO		0.	236
	000000006	00		9F 00 FB 00	0095 0099 009D		CLRL PUSHAB CALLS	PURGE JPI W	LIMIT SITEMS+24 YS\$PURGWS			239
26	0000000G	8F	45		00A4 5	58:	SUBL3 BRB	115	MIN_SCOPE, I		: 0	263
50		52 58	0000GCF40	78 00		58:	ASHL	#1. I	RO ECTOR-8[RO],	HENT OCD	0.0	268
		5A	0000GCF40	DO 00	00B8 00BE		MOVL MOVL CLRL	OCD_A	ECTOR-4[RO],	NEXT_OCD	0	269
		53 58 59 57	55 20 58 63 30 3A 3A 54	DO 00 DO 00 3C 00 D4 00	00C5 00C8 00CC	78:	BRB MOVL MOVL MOVZ MOVZWL CLRL	58 (OC	OCD, OCD NEXT_OCD D), NEXT_ROST D), R7		: 0:	274 275 276 277
	00004	56 59	17 59 66 56 01 50 56	DO 00 DO 00	00D7 00DA	3\$:	BRB MOVL MOVL PUSHL	ROST	ROST, ROST		0	282 283 284
	0000v	CF O7	50	F8 00	DODC DOE1		BLBS	RO, 9	MPLICITLY_CANG \$	LELED		
	00006	CF		DD 00	00E4 00E6		PUSHL	ROST #1. N	OTIFY LISTED (	PERATORS		289
ES CF B3	0000v	54 55 52 CF	000000000 8F 000	F3 00 F3 00 FB 00	00EB 9 00EF 1 00F3 1	0\$:  0\$:  1\$:	CALLS AOBLEQ AOBLEQ CALLS CALLS	R7 K R10, #MAX #0, I	OTIFY_LISTED_C  . 8\$  J. 7\$  SCOPE, I. 6\$  MPLIED_CANCEL  MPLIED_DISABLE EAD, NOD EAD, RO RO  2(NOD)		0	284 269 263 299
	00000	53 50 50	0000G CF 0000G CF 53	FB 00 FB 00 9E 00 D1 00	00FB 0100 0105 010A 1 010F 0112 0118 0116 0126 0126 0126 0134 0134	2\$:	MOVAB CMPL BEQL BICB2 CMPB	NOD H NOD H NOD ,	EAD, NOD EAD, RO RO	:	0.	300 304 305
	2A	A3 02	22 A3 0B 01 53	8A 00 91 00 12 00	0114		BICB2 CMPB	34 (NO	D) . #2		0	312 316
	2A	A3	01	8A 00	DITE		BNEQ BICB2 PUSHL	#1, 4	2(NOD)		0?	319 320
	00006	CF	01	FB 00	0124		CALLS	NOD #1, C	LUSMSG_ACK_PLE	ASE	0	
		CF 53	01 63 DC 0000G CF	8A 00 DD 00 FB 00 D0 00 11 00 95 00 18 00	0129 1 012C 012E 1	38: 48:	MOVL BRB TSTB BGEQ BICB2	12\$	, NUD		0	322 305 332
	00006	CF	80 8F 0000G CF	18 00 8A 00 9F 00	0132		BICBS BICBS	15\$ #128,	L_STATUS GLOBAL_STATUS LE_RAB		•	335 336
			0000G CF	9F 00	01 5A		PUSHAB	LOGF I	LE_RAB		: 03	556

OPC\$TIMESTAMP			K 10 16-Sep-1984 01:57:57 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:50:59 COPCOM.SRCJTIMESTAMP.B32;1	Page 10 (2)
	0000000G	0000	01 FB 0013E CALLS #1, SYS\$FLUSH CF D5 00145 15\$: TSTL PURGE_LIMIT 41 12 00149 BNEQ TB5 7E 7C 0014B CLRQ -(SP)	0343
		0000	7E D4 0014D CLRL -(SP) CF 9F 0014F PUSHAB JPI WSITEMS 7E 7C 00153 CLRQ -(SP) 7E D4 00155 CLRL -(SP)	, 0340
	000000006	00 5B	07 FB 00157 CALLS #7. SYS\$GETJP1	
	51 0000°	50 00000 CF 0000 51 50	0A CO 00171 ADDL 2 #10 R1	0355 0356
		51 50 51	50 D0 00179 MOVL SWAPO, R1 03 C4 0017C 16\$: MULL2 #3, SWAPO 50 D1 0017F CMPL RO. LIMIT	0357 0358
	0000° 0000G	50 CF CF 60	03 15 00182 BLEQ 17\$ 51 DO 00184 MOVL LIMIT, RO 50 DO 00187 17\$: MOVL RO, PURGE_LIMIT 8F 8A 0018C 18\$: BICB2 #96, GLOBĀL_STATUS 7E D4 00192 CLRL -(SP)	0364 0365
		FE68 0000	CF 9F 00194 PUSHAB TIME_STAMP CF 9F 00198 PUSHAB WAIT_DELTA	;
	00000000G	00 5B 09	04 DD 0019C PUSHL #4 04 FB 0019E CALLS #4, SYS\$SETIMR 50 D0 001A5 MOVL RO, STATUS 5B E8 001A5 BLBS STATUS, 20\$ 5B DD 001AB 19\$: PUSHL STATUS	
	00000000G	00	5B DD 001AB 19\$: PUSHL STATUS 01 FB 001AD CALLS #1, LIB\$STOP 04 001B4 20\$: RET	0367 0369

; Routine Size: 437 bytes, Routine Base: \$CODE\$ + 0000

```
GLOBAL ROUTINE IMPLICITLY_CANCELED (RQST) =
functional description:
                                      Check a given request to see if it has been implicitly canceled. An implicit cancelation is defined as the requestor deleting the reply mailbox without first having sent an explicit request cancelation
                                      message to OPCOM.
                              Input:
                038845678890123456
03884567889010339945678901040401123456
04040404040401123456
                                                 : address of a request control block
                                      ROST
                              Implicit Input:
                                      None.
                              Output:
                                      None.
                              Implict output:
                                      None.
                              Side effects:
                                      If the request has been implicitly canceled, it will be inserted
                                      into a queue of canceled requests. The queue will be processed later.
                              Routine value:
                                      TRUE
                                                 : the request has been implicitly canceled
                                                : the request is still active
                                      FALSE
                           BEGIN
                                                                                          ! Start of IMPLICITLY_CANCELED
                           MAP
                                      ROST
                                                           : $ref_bblock;
                                                                                          ! Request control block
                           EXTERNAL ROUTINE
                                      CLUSUTIL_SYSTEMID_EQUAL : JSB_ROR1;
                           EXTERNAL
                                                          : BITVECTOR [32].
                                      GLOBAL STATUS
CANCELED ROST Q
                                                          :
                                                             VECTOR.
                                                                                           ! List head of canceled requests
                                                             $ref_bblock.
                                      LCL_NOD
                                      MBX_FAO
                                                           : Sbblock:
                                                                                          ! FAO control string
                           LOCAL
                                      MBX_NAME
MBX_DESC
DEV_CHAR
                                                           : $bblock [MAX_DEV_NAM],! Mailbox device name buffer
                                                             Sdesc_block,
                                                                                            Mailbox device name descriptor
                                                             $bblock [DIBSK_LENGTH] ! Mailbox dev. char. buffer $desc_block; ! Mailbox dev. char. descriptor
                                      CHAR_DESC
                                                           : $desc_block;
```

```
M 10
OPCSTIMESTAMP
                                                                                                             16-Sep-1984 01:57:57
14-Sep-1984 12:50:59
                                                                                                                                                      VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJTIMESTAMP.B32:1
    Do not implicitly cancel requests from other nodes
                          04333456789
04333456789
044333456789
04444444444
044553456789
04466789
                                              .GLOBAL_STATUS [GBLSTS_K_IN_VAXcluster]
                                                IF NOT CLUSUTIL_SYSTEMID_EQUAL (RQST [RQCB_T_SYSTEMID], LCL_NOD [NOD_T_NODE_SYSTEMID])
                                                      RETURN FALSE;
                                                                                                                           ! Not disabled
                                            Check to see if the request has been implicitly canceled. The simplest way to do this is to attempt to get the device characteristics. If the device no longer exists, then assume the user is no longer interested in the request. First format the mailbox name from the information in the RQCB.
                                       THEN
                                                  The reply mailbox still exists.
                                               RETURN FALSE
                                        ELSE
                                               BEGIN
                                                  The reply mailbox no longer exists. Assume request canceled.
                                               ROST [ROSTS V IMPCANCEL] = TRUE;
INSQUE (ROST [ROCB_L_DSBLFLINK], CANCELED_ROST_Q);
                                                RETURN TRUE:
                                               END:
                                        END:
                                                                                                                          ! End of IMPLICITLY_CANCELED
                                                                                                                                          CLUSUTIL_SYSTEMID_EQUAL CANCELED_RQST_Q
LCL_NOD, MBX_FAO
SYS$FAO, SYS$GETDEV
                                                                                                                              .EXTRN
                                                                                                                              .EXTRN
                                                                                                                              .EXTRN
                                                                                      0004 00000
CE 9E 00002
G CF E9 00007
8F C1 0000C
1C C1 00016
0000G 30 0001B
                                                                                                                                           IMPLICITLY CANCELED, Save R2 -196(SP), SP GLOBAL STATUS+1, 1$ #80, LCL NOD, R1 #28, RQST, R0 CLUSUTIL_SYSTEMID_EQUAL
                                                                                                                                                                                                                          0370
                                                                                                                              .ENTRY
                                                                      FF3C
0000G
0000050
                                                                                                                              MOVAB
                                                                                                                             BLBC
ADDL3
ADDL3
                                                                                                                                                                                                                         0430
                                          51
50
                                                                  CF
                                                                                                                              BSBW
```

OPC\$TIMESTAMP			N 10 16-Sep-1984 01:57:57 VAX-11 BLiss-32 V4.0-742 14-Sep-1984 12:50:59 [OPCOM.SRC]TIMESTAMP.B32;1	Page 13 (3)
	7C BC	4F AE 40 AD C0 52 04 7E 2E B8 B8 0000G	50 E9 0001E	0444 0447 0448
	00000000G 04	00006 00 6E 74 AE 08	AD 9F 00033 PUSHAB MBX_DESC B AD 9F 00036 PUSHAB MBX_DESC OG CF 9F 00039 PUSHAB MBX_FAO O4 FB 0003D CALLS #4, SYS\$FAO B F 9A 00044 MOVZBL #116, CHAR_DESC OAE 9E 00048 MOVAB DEV_CHAR, CHAR_DESC+4 CLRQ -(SP) OAE 9F 0004F PUSHAB CHAR_DESC OAE 9F 00054 PUSHAB MBX_DESC OALLS #5, 3YS\$GETDEV	0449 0452 0453
	00000000G	00 0F A2 CF 008C	AD 9F 00054 PUSHAB MBX_DESC 05 FB 00057 CALLS #5, 3YS\$GETDEV 50 E8 0005E BLBS R0, 2\$ 01 88 00061 BISB2 #1, 42(R2) C2 0E 00065 INSQUE 140(R2), CANCELED_RQST_Q 01 DO 0006C MOVL #1, RO 04 0006F RET 50 D4 00070 2\$: CLRL RO	0464 0465 0466 0460
; Routine Size: 115 by	tes, Routine	Base: \$CODES	04 00072 RET DE\$ + 0185	•

```
B 11
16-Sep-1984 01:57:57
14-Sep-1984 12:50:59
OPCSTIMESTAMP
                                                                                                                             VAX-11 Bliss-32 V4.0-742
[OPCOM.SRC]TIMESTAMP.B32:1
                                                                                                                                                                               Page 14 (4)
V04-000
                      GLOBAL ROUTINE IMPLIED_CANCEL : NOVALUE =
   functional description:
                                             for all requests on the canceled request queue, create a cancellation message from the information in the request
                                             control block, and CALL the request cancellation handler as if the user had sent the cancellation message.
                                     Input:
                                             None.
                                     Implicit Input:
                                             CANCELED_ROST_0: The list head of all implicitly canceled requests.
                                     Output:
                                             None.
                                     Implict output:
                                             None.
                                    Side effects:
                                             All interested operators will be notified of the canceled requests. As this is done, implicitly disabled operators may be discovered.
                                             Those operators will be placed on the implicit disable queue and
                                             be processed later.
                                    Routine value:
                                             None.
                                 BEGIN
                                                                                                      ! Start of IMPLIED_CANCEL
                                 EXTERNAL ROUTINE
                                             CNCL HANDLER : NOVALUE NOTIFY_LISTED_OPERATORS;
                                                                                                     ! Old CANCEL message handler ! Notify a list of operators
                                                                    : NOVALUE,
                                 EXTERNAL
                                             CANCELED_RQST_Q : VECTOR;
                                                                                                     ! List head of canceled requests
                                 LITERAL
                                            MSG_HDR_SIZE
OLD_MSG_SIZE
MSG_BUF_SIZE
                                                                    = ($BYTEOFFSET(RQCB_B_RQSTCODE) - $BYTEOFFSET(RQCB_W_MSGTYPE)),
                                                                   = 8
                                                                    = MSG_HDR_SIZE + OLD_MSG_SIZE;
                                 MACRO
                                             REQUEST TYPE
TARGET MASK
REQUEST_ID
                                                                   = MSG_MDR_SIZE. 0.
= MSG_MDR_SIZE+1. 0.
= MSG_MDR_SIZE+4. 0.
```

PIS

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PS

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As

TH 27 TH 30

0

11

M/

```
C 11
16-Sep-1984 01:57:57
14-Sep-1984 12:50:59
OPC$TIMESTAMP
                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJTIMESTAMP.B32;1
                                                                                                                                                                                                                                        Page
V04-000
                                         ろろろろろろろろ
                                            LOCAL
                                                           CANCEL_MSG_BUF : $bblock [MSG_BUF_SIZE],! CANCEL request message buffer CANCEL_MSG_DESC : $desc_block, ! CANCEL request descriptor RQST : $ref_bblock; ! Request control block
     ! Request control block
                            Create the message buffer descriptor. We need do this only once.
                                            CANCEL_MSG_DESC [DSC$W_LENGTH] = MSG_BUF_SIZE;
CANCEL_MSG_DESC [DSC$B_DTYPE] = 0;
CANCEL_MSG_DESC [DSC$B_CLASS] = 0;
CANCEL_MSG_DESC [DSC$A_POINTER] = CANCEL_MSG_BUF;
                                                for all requests on the queue, create a cancel message
                                                (old format) and call the cancel request handler.
                                            WHILE NOT REMQUE (.CANCELED_RQST_Q, RQST) DO
                                                 BEGIN

ROST = .RQST - ($BYTEOFFSET(RQCB L DSBLFLINK) - $BYTEOFFSET(RQCB_L_FLINK));

CH$MOVE (MSG_HDR_SIZE, RQST [RQCB_W_MSGTYPE], CANCEL_MSG_BUF);

CANCEL_MSG_BUF [REQUEST_TYPE] = OPC$_RQ_CANCEL;

CANCEL_MSG_BUF [TARGET_MASK] = .RQST [RQCB_L_ATTNMASK1];

CANCEL_MSG_BUF [REQUEST_ID] = .RQST [RQCB_L_RQSTID];

CNCL_HANDLER (CANCEL_MSG_DESC);
                                                  END:
                                        1 END:
                                                                                                                                       ! End of IMPLIED CANCEL
                                                                                                                                          .EXTRN CNCL_HANDLER
                                                                                                               00000
00002
00005
                                                                                                                                                        IMPLIED_CANCEL, Save R2,R3,R4,R5,R6 #52, SP #46
                                                                                                      0070
                                                                                                                                           .ENTRY
                                                                                                                                                                                                                                               0470
                                                                        5E
                                                                                                                                          SUBL2
                                                                                                  32EEF466566650
                                                                                                          PUSHL
                                                                                                                                                                                                                                               0537
                                                                                                                                                                                                                                               0540
0547
                                                                        AE
56
                                                                                     00006
                                                                                                                00007
                                                                                                                                                         CANCEL MSG_BUF, CANCEL_MSG_DESC+4
aCANCELED_RQST_Q, RQST
                                                               04
                                                                                                                                          MOVAB
                                                                                                                0000C 15:
                                                                                                                                          REMQUE
                                                                                                                00011
                                                                                                                                          BVS
                                                                                                                                                         -140(R6), RQST
#38, 44(RQST), CANCEL_MSG_BUF
#5, CANCEL_MSG_BUF+38
92(RQST), #0, #24, CANCEL_MSG_BUF+39
100(RQST), CANCEL_MSG_BUF+42
                                                                                                               00013
                                                                                      FF74
                                                                                                                                          MOVAB
                                                                        56
A6
AE
00
AE
                                                                                                               00018
0001E
00022
00029
                                                               SE
SC
                                     08
                                                                                                                                          MOVC3
                                                                                                                                          MOVB
                                                                                         5C
                                                                                                                                                                                                                                               0552
0553
0554
           2F
                                              18
                                                                                                                                          INSV
                                                               32
                                                                                                                                          MOVL
                                                                                                               0002E
00030
00035
00037 2$:
                                                                                                                                          PUSHL
                                                                                                                                                         #1. CNCL_HANDLER
                                                           0000G
                                                                                                                                          CALLS
                                                                                                                                          BRB
                                                                                                                                                                                                                                               0547
0557
                                                                                                                                          RET
```

: Routine Size: 56 bytes.

Routine Base: \$CODE\$ + 0228

\*

P

OPC\$TIMESTAMP			E 11 16-Sep-198 14-Sep-198	4 01:57:57	VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJTIMESTAMP.832;1	Page 17
	50	01 0000	00000 00002 00005	.ENTRY IMPL MOVL #1, RET	IED_DISABLE, Save nothing	: 0558 : 0608 : 0610
; Routine Size: 6 bytes,	Routine Base:	SCODE\$ + 0260				
: 615 0611 1 : 616 0612 1 EN	ND LUDOM		1	End of TIMES	TAMP	
: Name		SUMMARY	444-16			
SGLOBALS SOWNS SCODES	40 NO	OVEC, WRT, RD OVEC, WRT, RD OVEC, NOWRT, RD	Attributes  NOEXE NOSHR, NOEXE NOSHR, EXE NOSHR,	LCL, REL, LCL, REL, LCL, REL,	CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2)	
	Library State					
file		Total Loaded		Pages Mapped	Processing Time	
\$255\$DUA28:[SYSLIB]LIE \$255\$DUA28:[OPCOM.OBJ]	B.L32:1 IOPCOMLIB.L32:1	18619 21 633 31	0	1000	00:01.8 00:00.9	
:	COMM	AND QUALIFIERS				
		LIS=LIS\$:TIMEST	AMP/OBJ=OBJ\$:T	IMESTAMP MSR	CS:TIMESTAMP/UPDATE=(ENHS:TIMESTAMP	)
: 618 0614 0 : Size: 614 code 6 : Run Time: 00:15.3 : Elapsed Time: 00:55.5 : Lines/CPU Min: 2406 : Lexemes/CPU-Min: 16295 : Memory Used: 155 pages : Compilation Complete	44 data bytes					

P

0292 AH-BT13A-SE

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